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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

DATE:

December 14, 1981

SUBJECT:

Oryzalin metabolism studies, Accession No. 246113, 10/22/81,

TB/HED comments on.

FROM:

Mary L. Quaife, Ph.D. ALG 12/14/81
Toxicology Branch/HED (TS-769) MAJ 11/8/ Mary L. Quaife, Ph.D.

TO:

Registration Division (TS-767)

EPA Ident. Nos. 1471-96 1471-112 Eli Lilly and Company Greenfield, Indiana 46140

RECOMMENDATION: A TOX gap with respect to general (e.g., rat) metabolism studies on oryzalin exists. Neither the biochemical pathway of metabolism nor identity of major and minor metabolites is delineated.

INTRODUCTION: Some of these data have been submitted previously and/or are in the review province of RCB, we believe:

- Rate and Route of Excretion in a Goat of Orally Administered 14C EL-119.
- Rate and Route of Excretion in Chickens of Orally Administered 14C 2. 豇-119, 5/10/73。
- Balance-Excretion and Metabolism Study of ¹⁴C Oryzalin in a Steer, 9/80.
- Radiochemical Studies with 14C Oryzalin ((in soybeans)).
- Large Animal Feeding Studies with 14 C Oryzalin in a Lactating Cow, a Steer, A Barrow, and Laying Hens, 11/80.

Three studies, previously submitted, relate to human safety evaluation:

Studies on the Absorption and Excretion of Compound 67919 in Rats, 8/68 (reviewed by Mr. D. Ritter, TB, PP No. 2G1201, 1/21/72).

Induction of p-Nitroanisole-O-Demethylation by Compound 67019, 5/17/71 2a. (also reviewed by Mr. Ritter, PP No. 2Gl201, 1/21/72).

Excretion and Metabolism of EL-119 by Rats, Rabbits, and Ducks, 10/72 (reviewed by Mr. W. S. Cox, RCB, PP No. 3F1347, 7/11/73) who found these single-dose, C studies show that oryzalin is excreted rapidly via the feces and urine (in rats, also, via bile), and in vivo many metabolites are formed (not identified).